



Method for producing a coating powder composition

Description of Technology: The invention relates to the preparation of coloured powder lacquers in particular for use in powder coating compositions. The invention also relates to the use of the powder lacquers obtained for the coating of substrates, as well as to the coated substrates thus obtained.

Patent Listing:

1. **US Patent No. 6,368,725**, Issued April 9, 2002, "Method for producing a coating powder composition"

<http://patft.uspto.gov/netacgi/nph-Parser?Sect2=PTO1&Sect2=HITOFF&p=1&u=%2Fnetacgi%2FPTO%2Fsearch-bool.html&r=1&f=G&l=50&d=PALL&RefSrch=yes&Query=PN%2F6368725>

Market Potential: Powder lacquers are generally prepared by conventional extruder technology. For this, the constituents of the powder lacquer, that is to say the binders, curing agents and optionally pigments and further additives, as solids, are pre-mixed intensively in the dry state in the requisite quantitative ratios, and are then melted at the lowest possible temperature in an extruder and intermixed intensively. The binders and curing agents are thereby plasticised, and the optionally contained pigments and extenders wetted. The optionally coloured extrudate which is obtained is then rolled out to a thin layer, cooled and crushed into coarse granules which are ground to the finished powder lacquer in a mill.

Benefits:

- A narrow grain size range and homogeneous particle organisation result, and powder coatings with powder lacquer compositions based on pigmented lacquer powders prepared in this manner are obtained, which have the desired good lacquer characteristics.

Applications:

- Colored powder lacquers

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